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DM Choy, PG Selinger, IBMAR Center, CA San Jose - PDIS, 1991 - ieeexplore.ieee.org
... developed to manage resource descriptions for a **heterogeneous** network. ... lacks the
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PVM: A Framework for Parallel Distributed Computing
VS Sunderam, J Dongarra - Concurrency Practice and Experience, 1990 - sharjah.ac.ae
... components. It is intended to operate on a collection of **heterogeneous**
computing elements interconnected by one or more networks. ...
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A Reusable Lightweight Executive for Command and Control Systems
N Fleener, L Moody, M Stewart - ACM SIGAda Ada Letters, 1998 - portal.acm.org
... The Ada95 protected object provides an efficient and reliable **resource locking**
mechanism. ... are streams, it is possible to read and write **heterogeneous** files. ...
Web Search - acm.org - acm.org - portal.acm.org

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A Fedoruk - bistrica.usask.ca
... inter-agent communications, read and write consistency, **resource locking** and results ...
In **heterogeneous** replication replicants are created which are functionally ...
Cited by 1 - View as HTML - Web Search

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P Bishop, R Bloomfield, T Clement, S Guerra, C ... - Proceedings, 22nd International Conference on Computer ..., 2003 - adelard.co.uk
... and verify a formal specification for a large body of **heterogeneous** C and ... is more
complex (although it was used for identifying **resource locking** statements). ...
Cited by 4 - View as HTML - Web Search - adelard.com

Improving fault-tolerance by replicating agents
A Fedoruk, R Deters - AAMAS, 2002 - portal.acm.org
... to the inter-agent communication, read/write consistency, **resource locking**, resource
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Cited by 11 - Web Search - bistrica.usask.ca - portal.acm.org

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WA Halang, KH Kim, K Mori, U Schmid, HF Wedde - PROC IEEE COMPUT SOC INT COMPUT SOFTWARE APPL CONF. pp.
338- ..., 1998 - ieeexplore.ieee.org
... distributed transaction processing, on how to integrate **heterogeneous** systems with ...
adequate operating sys- tem support distributed **resource locking** have been ...
Web Search - doi.ieeecomputersociety.org - ieeexplore.ieee.org - csa.com

Web Service Composition Transaction Management
B Limthanmaphon, Y Zhang - Proceedings of the Fifteenth Australian Database Conference - portal.acm.org
... Longer periods of **resource locking** will result in serious scalability issues ... by
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1   Integrated network computing models, programming modes and software tools   █

◈ V. K. Murthy, E. V. Krishnamurthy
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**
Publisher: ACM Press
Full text available: 📄 pdf(698.60 KB)   Additional Information: full citation, references, index terms

2   Transactional workflow paradigm: its application to mobile computing   █

◈ V. K. Murthy
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**
Publisher: ACM Press
Full text available: 📄 pdf(997.50 KB)   Additional Information: full citation, references, citings, index terms

Keywords: agents, intention-action protocols, mobile transactions, serializability, workflow

3   World-class product certification using Erlang   ▆

◈ Ulf Wiger, Gösta Ask, Kent Boortz
October 2002 **Proceedings of the 2002 ACM SIGPLAN workshop on Erlang**
Publisher: ACM Press
Full text available: 📄 pdf(162.26 KB)   Additional Information: full citation, abstract, references, citings, index terms

It is now ten years ago since the decision was made to apply the functional programming language Erlang to real production projects at Ericsson. In late 1995, development on the Open Telecom Platform (OTP) started, and in mid 1996 the AXD 301 project became the first user of OTP. The AXD 301 Multi-service Switch was released in October 1998, and later became "the heart of ENGINE", Ericsson's leading Voice over Packet solution.In those early days of Erlang programming, high-level tools for develo ...

Keywords: erlang, testing

4   PLI workshops: World-class product certification using Erlang   ▆

Ulf Wiger, Gösta Ask, Kent Boortz
December 2002 **ACM SIGPLAN Notices**, Volume 37 Issue 12

Publisher: ACM Press

Full text available: 🔲 pdf(195.51 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

It is now ten years ago since the decision was made to apply the functional programming language Erlang to real production projects at Ericsson. In late 1995, development on the Open Telecom Platform (OTP) started, and in mid 1996 the AXD 301 project became the first user of OTP. The AXD 301 Multi-service Switch was released in October 1998, and later became "the heart of ENGINE", Ericsson's leading Voice over Packet solution.In those early days of Erlang programming, high-level tools for develo ...·

Keywords: Erlang, testing

5 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid
May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 12 Issue 1
Publisher: Springer-Verlag New York, Inc.

Full text available: 🔲 pdf(558.34 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

6 Session 8B: scalability and robustness: Improving fault-tolerance by replicating agents

Alan Fedoruk, Ralph Deters
July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2**
Publisher: ACM Press

Full text available: 🔲 pdf(168.43 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Despite the considerable efforts spent on developing multi-agent systems the actual number of deployed systems is surprisingly small. One of the reasons for the significant gap between developed and deployed systems is their brittleness.The absence of centralized control components makes it difficult to detect and treat failures of individual agents thus risking fault-propagation that can seriously impact the performance of the system. Using redundancy by replication of individual agents within ...·

Keywords: FIPA-OS, fault-tolerance, replicating agents

7 Distributed object computing platforms

Asuman Dogac, Cevdet Dengi, M. Tamer Öszu
September 1998 **Communications of the ACM**, Volume 41 Issue 9
Publisher: ACM Press

Full text available: 🔲 pdf(187.25 KB) Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

8 A mobile transaction model that captures both the data and movement behavior

Margaret H. Dunham, Abdelsalam Helal, Santosh Balakrishnan
October 1997 **Mobile Networks and Applications**, Volume 2 Issue 2
Publisher: Kluwer Academic Publishers

Full text available: pdf(339.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

Unlike distributed transactions, mobile transactions do not originate and end at the same site. The implication of the movement of such transactions is that classical atomicity, concurrency and recovery solutions must be revisited to capture the movement behavior. As an effort in this direction, we define a model of mobile transactions by building on the concepts of split transactions and global transactions in a multidatabase environment. Our view of mobile transactions, called Kangaroo Tr ...

9 Multidatabase systems: Issues in managing long transactions and large objects in a multidatabase system

Gopi Attaluri
November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**
Publisher: IBM Press

Full text available: pdf(1.64 MB)   Additional Information: full citation, abstract, references, citings

Transactions are a useful and important facility in database systems. Transactions have been incorporated into not only traditional database systems, but also advanced transaction systems (such as file systems (LOCUS), engineering design database systems (CAD/CAM) and general programming languages (Avalon, Argus)). A variety of techniques has been used to support transactions.An environment may be comprised of multiple transaction systems. Writing a global application in such an environment can ...

10 A reusable lightweight executive for command and control systems

Nathan Fleener, Laura Moody, Mary Stewart
November 1998 **ACM SIGAda Ada Letters , Proceedings of the 1998 annual ACM SIGAda international conference on Ada SIGAda '98,** Volume XVIII Issue 6
Publisher: ACM Press

Full text available: pdf(678.14 KB)   Additional Information: full citation, references, index terms

Keywords: Ada, executive, portability

11 The Purdue University network-computing hubs: running unmodified simulation tools via the WWW

Nirav H. Kapadia, José A. B. Fortes, Mark S. Lundstrom
January 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS),** Volume 10 Issue 1
Publisher: ACM Press

Full text available: pdf(110.49 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes the Web interface management infrastructure of a functioning network-computing system (PUNCH) that allows users to run unmodified simulation packages at geographically dispersed sites. The system currently contains more than fifty university and commercial simulation tools, and has been used to carry out more than two hundred thousand simulations via the World Wide Web. Dynamically-constructed virtual URLs allow the Web interface management infrastructure to support the ...

Keywords: Internet computing, network-computing, web-based simulation

12 <u>Web service composition transaction management</u>

Benchaphon Limthanmaphon, Yanchun Zhang

January 2004 **Proceedings of the fifteenth conference on Australasian database -
Volume 27 CRPIT '04**

Publisher: Australian Computer Society, Inc.

Full text available: <u>pdf(140.52 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

The development of new web services by composition of existing services is becoming an extensive approach. This has resulted in transactions that span in multiple web services. These business transactions may be unpredictable and long in duration. Thus they may not be acceptable to lock resources exclusively for such long period. Two-phase commit is also not suitable for transactions with some long sub-transactions. Compensation is a way to ensure transaction reliability. However, rolling back a ...

Keywords: Web service transaction management, Web services composition, compensation, negotiation, tentative hold

13 <u>A hybrid procedural/deductive executive for autonomous spacecraft</u>

Barney Pell, Edward B. Gamble, Erann Gat, Ron Keesing, James Kurien, William Millar, P. Pandurang Nayak, Christian Plaunt, Brian C. Williams

May 1998 **Proceedings of the second international conference on Autonomous agents**

Publisher: ACM Press

Full text available: <u>pdf(1.23 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

14 <u>An annotated bibliography of interactive program steering</u>

Weiming Gu, Jeffrey Vetter, Karsten Schwan

September 1994 **ACM SIGPLAN Notices**, Volume 29 Issue 9

Publisher: ACM Press

Full text available: <u>pdf(1.24 MB)</u>   Additional Information: <u>full citation</u>, <u>citings</u>, <u>index terms</u>

15 <u>Adaptive replication of large-scale multi-agent systems: towards a fault-tolerant multi-agent platform</u>

Zahia Guessoum, Nora Faci, Jean-Pierre Briot

May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the fourth international workshop on Software engineering for large-scale multi-agent systems SELMAS '05**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: <u>pdf(135.73 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

In order to construct and deploy large-scale multi-agent systems, we must address one of the fundamental issues of distributed systems, the possibility of partial failures. This means that fault-tolerance is an inevitable issue for large-scale multi-agent systems. In this paper, we discuss the issues and propose an approach for fault-tolerance of multi-agent systems. The starting idea is the application of replication strategies to agents, the most critical agents being replicated to prevent fai ...

16 <u>Chains of commitment software architecture</u>

Rich Ervin

December 2001 **ACM SIGecom Exchanges**, Volume 3 Issue 1

Publisher: ACM Press

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

Full text available: 🔁 pdf(182.66 KB)   terms

As eCommerce becomes more competitive and continues to expand into and merge with traditional supply-chain based businesses, a significant competitive advantage can be achieved through improved automation of the commitment process. The "chains of commitments" approach to this problem exploits the fact that a commitment from a vendor is backed up by a chain of commitments from a chain of vendors, a.k.a. the supply chain. This paper presents a high-level architecture to support this automation. It ...

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